Idaho Grade 7

FlyBy MathTM Alignment Idaho Achievement Standards Mathematics 2-1-06

Mathematics 2-1-06	
Standard 1: Number and Operation	
Goal 1.1: Understand and use numbers.	
Objective(s)	FlyBy Math [™] Activities
7.M.1.1.6 Recognize pertinent information for problem-solving (328.01.b)	Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
Goal 1.2: Perform computations accurately	
Objective(s)	FlyBy Math [™] Activities
7.M.1.2.6 Use a variety of strategies including common mathematical formulas to compute problems drawn from real life situations. (328.01.a)	Use tables, graphs, and equations to solve aircraft conflict problems.
	Use the distance-rate-time formula to predict and analyze aircraft conflicts.
Goal 1.3: Estimate and judge reasonableness of results.	
Objective(s)	FlyBy Math [™] Activities
7.M.1.3.1 Estimate to predict computation results. (317.03 a)	Predict outcomes and explain results of mathematical models and experiments.

Standard 2: Concepts and Principles of Measurement Goal 2.1: Understand and use customary and metric measurements. FlyBy MathTM Activities Objective(s) 7.M.2.1.1 Select and use appropriate units and tools to --Calculate and measure the position and time of make formal measurements in both systems. (329.01.a) simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation. 7.M.2.1.2 Apply estimation of measurement to real---Predict outcomes and explain results of mathematical world and content problems using standard measuring models and experiments. devices. (329.01.b) -- Compare predictions, calculations, and experimental evidence for several aircraft conflict problems.

Goal 2.2: Apply the concepts of rates, ratios, and proportions.		
FlyBy Math TM Activities		
Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.		
Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.		
ebra and Functions		
FlyBy Math [™] Activities		
Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different constant (fixed) rates.		
Interpret the slope of a line in the context of a distance-rate-time problem.		
functions in a variety of formats.		
Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.		
is.		
FlyBy Math [™] Activities		
Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. Represent distance, speed, and time relationships for constant speed cases using linear equations and a		

Standard 4: Concepts and Principles of Geometry		
Goal 4.3: Apply graphing in two dimensions.		
Objective(s)	FlyBy Math [™] Activities	
7.M.4.3.1 Identify and plot points on a coordinate plane.	Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.	

Standard 5: Data Analysis, Probability, and Statistics Goal 5.1: Understand data analysis.		
7.M.5.1.1 Read and interpret tables, charts, and graphs, including frequency tables, scatter plots, broken line graphs, line plots, bar graphs, histograms, circle graphs, and stem-and-leaf plots. (332.01.a)	Represent distance, rate, and time data using tables, line plots, bar graphs, and line graphs. Use tables, bar graphs, line graphs, equations, and a Cartesian coordinate system to draw conclusions.	
7.M.5.1.2 Explain conclusions drawn from tables, charts, and graphs. (332.01.b)	Explain and justify solutions regarding the motion of two airplanes using the results of plotting points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system.	
Goal 5.2: Collect, organize, and display data.		
Objective(s)	FlyBy Math TM Activities	
7.M.5.2.1 Collect, organize and display data with appropriate notation in tables, charts and graphs, including scatter plots, broken line graphs, line plots, bar graphs, and stem-and-leaf plots. (332.02.a)	Represent distance, rate, and time data using tables, line plots, bar graphs, and line graphs. Choose among tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.	